

Mass spectrometry

# DIA Publications

## Featuring Thermo Scientific Orbitrap Fusion Lumos Tribrid Mass Spectrometers

**Multiplexed data independent acquisition (MSX-DIA) applied by high resolution mass spectrometry improves quantification quality for the analysis of histone peptides**

Simone Sidoli, Rina Fujiwara, Benjamin A. Garcia

*Proteomics* 2016, 00, 1–11.

<http://onlinelibrary.wiley.com/doi/10.1002/pmic.201500527/abstract;jsessionid=AB5982DC50E7AF4316F00CC97265F1F2.f01t02>

**Detergent-insoluble proteome analysis revealed aberrantly aggregated proteins in human preeclampsia placentas**

Wanling Zhang, Xing Chen, Ziqi Yan, Yang Chen, Yizhi Cui, Bingjun Chen, Chujun Huang, Weiwen Zhang, Xingfeng Yin, Qing-Yu He, Fang He, Tong Wang

*J. Proteome Res.* 2017, 16, 12, 4468–4480.

<http://pubs.acs.org/doi/10.1021/acs.jproteome.7b00352>

**MdFDIA: A mass defect based four-plex data-independent acquisition strategy for proteome quantification**

Yi Di, Ying Zhang, Lei Zhang, Tao Tao, Haojie Lu

*Anal. Chem.*, 2017, 89 (19), pp 10248–10255.

<http://pubs.acs.org/doi/abs/10.1021/acs.analchem.7b01635?journalCode=ancham>

**Comparative analyses of data independent acquisition mass spectrometric approaches: DIA, WiSIM-DIA and untargeted DIA**

Frank Koopmans, Jenny T. C. Ho, August B. Smit, Ka Wan Li

*PROTEOMICS*, Volume 18, Issue 1, January 2018, 1700304.

<http://onlinelibrary.wiley.com/doi/10.1002/pmic.201700304/full>

**DIA+: A data-independent acquisition method combining multiple precursor charges to improve peptide signal**

Eva Borràs, Eduard Sabidó

*Anal. Chem.* 2018, 90, 21, 12339–12341.

<https://pubs.acs.org/doi/10.1021/acs.analchem.8b03418>

**Histone serotonylation is a permissive modification that enhances TFIID binding to H3K4me3**

Lorna A. Farrelly, Robert E. Thompson, Shuai Zhao, Ashley E. Lepack, Yang Lyu, Natarajan V. Bhanu, Baichao Zhang, Yong-Hwee E. Loh, Aarthi Ramakrishnan, Krishna C. Vadodaria, Kelly J. Heard, Galina Erikson, Tomoyoshi Nakadai, Ryan M. Bastle, Bradley J. Lukasak, Henry Zebroski III, Natalia Alenina, Michael Bader, Olivier Berton, Robert G. Roeder, Henrik Molina, Fred H. Gage, Li Shen, Benjamin A. Garcia, Haitao Li, Tom W. Muir, Ian Maze

*Nature* (2019).

<https://www.nature.com/articles/s41586-019-1024-7>

### **The whole transcriptome and proteome changes in the early stage of myocardial infarction**

Yanfei Li, Cuiping Wang, Tingting Li, Linlin Ma, Fangzhou Fan, Yueling Jin, Junwei Shen

*Cell Death Discovery*, Volume 5, Article number: 73 (2019).

<https://www.nature.com/articles/s41420-019-0152-z>

### **A programmed wave of uridylation-primed mRNA degradation is essential for meiotic progression and mammalian spermatogenesis**

Marcos Morgan, Yuka Kabayama, Christian Much, Ivayla Ivanova, Monica Di Giacomo, Tatsiana Auchynnikava, Jack Michael Monahan, Dimitrios Michael Vitsios, Lina Vasiliauskaitė, Stefano Comazzetto, Juri Rappsilber, Robin Campbell Allshire, Bo Torben Porse, Anton James Enright & Dónal O'Carroll

*Cell Research*, Volume 29, Pages 221–232 (2019).

<https://www.nature.com/articles/s41422-018-0128-1>

### **Comparison of protein quantification in a complex background by DIA and TMT workflows with fixed instrument time**

Jan Muntel, Joanna Kirkpatrick, Roland Bruderer, Ting Huang, Olga Vitek, Alessandro Ori, Lukas Reiter

*J. Proteome Res.*, 2019, 18 (3), pp 1340–1351.

<https://pubs.acs.org/doi/10.1021/acs.jproteome.8b00898>

### **Metastatic-niche labelling reveals parenchymal cells with stem features**

Luigi Ombrato, Emma Nolan, Ivana Kurelac, Antranik Mavousian, Victoria Louise Bridgeman, Ivonne Heinze, Probir Chakravarty, Stuart Horswell, Estela Gonzalez-Gualda, Giulia Matakchione, Anne Weston, Joanna Kirkpatrick, Ehab Husain, Valerie Speirs, Lucy Collinson, Alessandro Ori, Joo-Hyeon Lee, Ilaria Malanchi

*Nature*, Volume 572, Pages 603–608 (2019).

<https://www.nature.com/articles/s41586-019-1487-6>

### **Quantitative photo-crosslinking mass spectrometry revealing protein structure response to environmental changes**

Franze Muller, Andrea Graziadei, Juri Rappsilber

*Anal. Chem.* 2019, 91, 9041–9048.

<https://pubs.acs.org/doi/10.1021/acs.analchem.9b01339>

### **Wiskott-Aldrich syndrome protein forms nuclear condensates and regulates alternative splicing (DIA)**

Baolei Yuan, Xuan Zhou, Keiichiro Suzuki, Gerardo Ramos-Mandujano, Mengge Wang, Muhammad Tehseen, Lorena V. Cortés-Medina, James J. Moresco, Sarah Dunn, Reyna Hernandez-Benitez, Tomoaki Hishida, Na Young Kim, Manal M. Andijani, Chongwei Bi, Manching Ku, Yuta Takahashi, Jinna Xu, Jinsong Qiu, Ling Huang, Christopher Benner, Emi Aizawa, Jing Qu, Guang-Hui Liu, Zhongwei Li, Fei Yi, Yanal Ghosheh, Changwei Shao, Maxim Shokhirev, Patrizia Comoli, Francesco Frassoni, John R. Yates III, Xiang-Dong Fu, Concepcion Rodriguez Esteban, Samir Hamdan, Mo Li, Juan Carlos, Izpisua Belmonte

*Nature Communications*, Volume 13, Article number: 3646 (2022).

<https://www.nature.com/articles/s41467-022-31220-8>

### **Hypoxia shapes the immune landscape in lung injury and promotes the persistence of inflammation**

Ananda S. Mirchandani, Stephen J. Jenkins, Calum C. Bain, Manuel A. Sanchez-Garcia, Hannah Lawson, Patricia Coelho, Fiona Murphy, David M. Griffith, Ailiang Zhang, Tyler Morrison, Tony Ly, Simone Arienti, Pranvera Sadiku, Emily R. Watts, Rebecca S. Dickinson, Leila Reyes, George Cooper, Sarah Clark, David Lewis, Van Kelly, Christos Spanos, Kathryn M. Musgrave, Liam Delaney, Isla Harper, Jonathan Scott, Nicholas J. Parkinson, Anthony J. Rostron, J. Kenneth Baillie, Sara Clohisey, Clare Pridans, Lara Campana, Philip Starkey Lewis, A. John Simpson, David H. Dockrell, Jürgen Schwarze, Nikhil Hirani, Peter J. Ratcliffe, Christopher W. Pugh, Kamil Kranc, Stuart J. Forbes, Moira K. B. Whyte, Sarah R. Walmsley

*Nature Immunology*, Volume 23, Pages 927–939 (2022).

<https://www.nature.com/articles/s41590-022-01216-z>

### **ADH1C inhibits progression of colorectal cancer through the ADH1C/PHGDH /PSAT1/serine metabolic pathway**

Sha Li, Hong Yang, Wan Li, Jin-yi Liu, Li-wen Ren, Yi-hui Yang, Bin-bin Ge, Yi-zhi Zhang, Wei-qi Fu, Xiang-jin Zheng, Guan-hua Du, Jin-Hua Wang

*Acta Pharmacologica Sinica* (2022).

<https://www.nature.com/articles/s41401-022-00894-7>

### **Morphine-induced modulation of Nrf2-antioxidant response element signaling pathway in primary human brain microvascular endothelial cells**

Sandrine Reymond, Tatjana Vujić, Domitille Schvartz, Jean-Charles Sanchez

*Scientific Reports, Volume 12, Article number: 4588 (2022).*

<https://www.nature.com/articles/s41598-022-08712-0>

### **Stress vulnerability shapes disruption of motor cortical neuroplasticity**

Anne-Kathrin Gellner, Aileen Sitter, Michal Rackiewicz, Marc Sylvester, Alexandra Philipsen, Andreas Zimmer, Valentin Stein

*Translational Psychiatry, Volume 12, Article number: 91 (2022).*

<https://www.nature.com/articles/s41398-022-01855-8>

### **Depletion of mitochondrial methionine adenosyltransferase $\alpha 1$ triggers mitochondrial dysfunction in alcohol-associated liver disease**

Lucía Barbier-Torres, Ben Murray, Jin Won Yang, Jiaohong Wang, Michitaka Matsuda, Aaron Robinson, Aleksandra Binek, Wei Fan, David Fernández-Ramos, Fernando Lopitz-Otsoa, Maria Luque-Urbano, Oscar Millet, Nirmala Mavila, Hui Peng, Komal Ramani, Roberta Gottlieb, Zhaoli Sun, Suthat Liangpunsakul, Ekihiro Seki, Jennifer E. Van Eyk, Jose M. Mato, Shelly C. Lu

*Nature Communications, Volume 13, Article number: 557 (2022).*

<https://www.nature.com/articles/s41467-022-28201-2>

### **Pyroptosis inhibition improves the symptom of acute myocardial infarction**

Wenju Liu, Junwei Shen, Yanfei Li, Jiawen Wu, Xiaoli Luo, Yuanyuan Yu, Yuhan Zhang, Liang Gu, Xiaobai Zhang, Cizhong Jiang, Jue Li

*Cell Death & Disease, Volume 12, Article number: 852 (2021).*

<https://www.nature.com/articles/s41419-021-04143-3>

### **Paraquat-induced cholesterol biosynthesis proteins dysregulation in human brain microvascular endothelial cells**

Vujić Tatjana, Schvartz Domitille, Sanchez Jean-Charles

*Scientific Reports, Volume 11, Article number: 18137 (2021).*

<https://www.nature.com/articles/s41598-021-97175-w>

### **MaxDIA enables library-based and library-free data-independent acquisition proteomics**

Pavel Sinitcyn, Hamid Hamzei, Favio Salinas Soto, Daniel Itzhak, Frank McCarthy, Christoph Wichmann, Martin Steger, Uli Ohmayer, Ute Distler, Stephanie Kaspar-Schoenefeld, Nikita Prianichnikov, Şule Yilmaz, Jan Daniel Rudolph, Stefan Tenzer, Yasset Perez-Riverol, Nagarjuna Nagaraj, Sean J. Humphrey, Jürgen Cox

*Nature Biotechnology, Volume 39, Pages 1563–1573 (2021).*

<https://www.nature.com/articles/s41587-021-00968-7>

### **SARS-CoV-2 RNAemia and proteomic trajectories inform prognostication in COVID-19 patients admitted to intensive care**

Clemens Gutmann, Kaloyan Takov, Sean A. Burnap, Bhawana Singh, Hashim Ali, Konstantinos Theofilatos, Ella Reed, Maria Hasman, Adam Nabeebaccus, Matthew Fish, Mark J.W. McPhail, Kevin O’Gallagher, Lukas E. Schmidt, Christian Cassel, Marieke Rienks, Xiaoke Yin, Georg Auzinger, Salvatore Napoli, Salma F. Mujib, Francesca Trovato, Barnaby Sanderson, Blair Merrick, Umar Niazi, Mansoor Saqi, Konstantina Dimitrakopoulou, Rafael Fernández-Leiro, Silke Braun, Romy Kronstein-Wiedemann, Katie J. Doores, Jonathan D. Edgeworth, Ajay M. Shah, Stefan R. Bornstein, Torsten Tonn, Adrian C. Hayday, Mauro Giacca, Manu Shankar-Hari, Manuel Mayr

*Nature Communications, Volume 12, Article number: 3406 (2021).*

<https://www.nature.com/articles/s41467-021-23494-1>

### **A data-independent acquisition-based global phosphoproteomics system enables deep profiling**

Reta Birhanu Kitata, Wai-Kok Choong, Chia-Feng Tsai, Pei-Yi Lin, Bo-Shiun Chen, Yun-Chien Chang, Alexey I. Nesvizhskii, Ting-Yi Sung, Yu-Ju Chen

*Nature Communications, Volume 12, Article number: 2539 (2021).*

<https://www.nature.com/articles/s41467-021-22759-z>

### **ACOX2 is a prognostic marker and impedes the progression of hepatocellular carcinoma via PPAR $\alpha$ pathway**

Qifan Zhang, Yunbin Zhang, Shibo Sun, Kai Wang, Jianping Qian, Zhonglin Cui, Tao Tao, Jie Zhou

*Cell Death & Disease, Volume 12, Article number: 15 (2021).*

<https://www.nature.com/articles/s41419-020-03291-2>

### **Quantitative shotgun proteome analysis by direct infusion**

Jesse G. Meyer, Natalie M. Niemi, David J. Pagliarini & Joshua J. Coon

*Nature Methods*, Volume 17, Pages 1222–1228 (2020).

<https://www.nature.com/articles/s41592-020-00999-z>

### **Loss of metabolic plasticity underlies metformin toxicity in aged *Caenorhabditis elegans***

Lilia Espada, Alexander Dakhovnik, Prerana Chaudhari, Asya Martirosyan, Laura Miek, Tetiana Poliezhaiieva, Yvonne Schaub, Ashish Nair, Nadia Döring, Norman Rahnis, Oliver Werz, Andreas Koeberle, Joanna Kirkpatrick, Alessandro Ori, Maria A. Ermolaeva

*Nature Metabolism*, Volume 2, Pages 1316–1331 (2020).

<https://www.nature.com/articles/s42255-020-00307-1>

### **Vulnerability of progeroid smooth muscle cells to biomechanical forces is mediated by MMP13**

Patricia R. Pitrez, Luís Estronca, Luís Miguel Monteiro, Guillem Colell, Helena Vazão, Deolinda Santinha, Karim Harhour, Daniel Thornton, Claire Navarro, Anne-Laure Egesipe, Tânia Carvalho, Rodrigo L. Dos Santos, Nicolas Lévy, James C. Smith, João Pedro de Magalhães, Alessandro Ori, Andreia Bernardo, Annachiara De Sandre-Giovannoli, Xavier Nissan, Anna Rosell, Lino Ferreira

*Nature Communications*, Volume 11, Article number: 4110 (2020).

<https://www.nature.com/articles/s41467-020-17901-2>

### **Metaproteomics characterizes human gut microbiome function in colorectal cancer**

Shuping Long, Yi Yang, Chengpin Shen, Yiwen Wang, Anmei Deng, Qin Qin, Liang Qiao

*npj Biofilms and Microbiomes*, Volume 6, Article number: 14 (2020).

<https://www.nature.com/articles/s41522-020-0123-4>

### **ChromID identifies the protein interactome at chromatin marks**

Rodrigo Villaseñor, Ramon Pfaendler, Christina Ambrosi, Stefan Butz, Sara Giuliani, Elana Bryan, Thomas W. Sheahan, Annika L. Gable, Nina Schmolka, Massimiliano Manzo, Joël Wirz, Christian Feller, Christian von Mering, Ruedi Aebersold, Philipp Voigt, Tuncay Baubec

*Nature Biotechnology*, Volume 38, Pages 728–736 (2020).

<https://www.nature.com/articles/s41587-020-0434-2>

### **Comprehensive draft of the mouse embryonic fibroblast lysosomal proteome by mass spectrometry based proteomics**

Srigayatri Ponnaiyan, Fatema Akter, Jasjot Singh, Dominic Winter

*Scientific Data*, Volume 7, Article number: 68 (2020).

<https://www.nature.com/articles/s41597-020-0399-5>

### **Metastatic-niche labelling reveals parenchymal cells with stem features**

Luigi Ombrato, Emma Nolan, Ivana Kurelac, Antranik Mavousian, Victoria Louise Bridgeman, Ivonne Heinze, Probir Chakravarty, Stuart Horswell, Estela Gonzalez-Gualda, Giulia Maticchione, Anne Weston, Joanna Kirkpatrick, Ehab Husain, Valerie Speirs, Lucy Collinson, Alessandro Ori, Joo-Hyeon Lee, Iliaria Malanchi

*Nature*, Volume 572, pages 603–608 (2019).

<https://www.nature.com/articles/s41586-019-1487-6>

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*Cell Death Discovery*, Volume 5, Article number: 73 (2019).

<https://www.nature.com/articles/s41420-019-0152-z>

### **Metabolic responsiveness to training depends on insulin sensitivity and protein content of exosomes in insulin-resistant males**

Maria Apostolopoulou, Lucia Mastrototaro, Sonja Hartwig, Dominik Pesta, Klaus Straßburger, Elisabetta de Filippo, Tomas Jelenik, Yanislava Karusheva, Sofiya Gancheva, Daniel Markgraf, Christian Herder, K. Sreekumaran Nair, Andreas S. Reichert, Stefan Lehr, Karsten Müssig, Hadi Al-Hasani, Julia Szendroedi, Michael Roden

*SCIENCE ADVANCES*, 8 Oct 2021 Vol 7, Issue 41.

<https://www.science.org/doi/10.1126/sciadv.abi9551>

### **Deciphering key regulators of *Inonotus hispidus* petroleum ether extract involved in anti-tumor through whole transcriptome and proteome analysis in H22 tumor-bearing mice model**

Zhijun Li, Haiying Bao

*Journal of Ethnopharmacology*, Volume 296, 2022, 115468.

<https://www.sciencedirect.com/science/article/pii/S0378874122005074>

**Comprehensive proteomic analysis to elucidate the anti-heat stress effects of nano-selenium in rainbow trout (*Oncorhynchus mykiss*)**

Lanlan Li, Zhe Liu, Jinqiang Quan, Jun Sun, Junhao Lu, Guiyan Zhao

*Ecotoxicology and Environmental Safety*, Volume 241, 2022, 113736.

<https://www.sciencedirect.com/science/article/pii/S0147651322005760>

**Modulation and proteomic changes on the heme pathway following treatment with 5-aminolevulinic acid**

Sara Sansaloni-Pastor, Emmanuel Varesio, Norbert Lange

*Journal of Photochemistry and Photobiology B: Biology*, Volume 233, 2022, 112484.

<https://www.sciencedirect.com/science/article/pii/S1011134422000987>

**Inhibition of nuclear deacetylase sirtuin-1 induces mitochondrial acetylation and calcium overload leading to cell death**

Yue Sun, Yan-Ming Yang, Yu-Yu Hu, Lan Ouyang, Zheng-Hua Sun, Xing-Feng Yin, Nan Li, Qing-Yu He, Yang Wang

*Redox Biology*, Volume 53, 2022, 102334.

<https://www.sciencedirect.com/science/article/pii/S2213231722001069>

**The heart-brain axis: a proteomics study of meditation on the cardiovascular system of Tibetan monks**

Ting Xue, Benjamin Chiao, Tianjiao Xu, Han Li, Kai Shi, Ying Cheng, Yuan Shi, Xiaoli Guo, Shanbao Tong, Menglin Guo, Soo Hong Chew, Richard P. Ebstein, Donghong Cui

*eBioMedicine*, Volume 80, 2022, 104026.

<https://www.sciencedirect.com/science/article/pii/S2352396422002109>

**The crosstalk signals of sodium tanshinone IIA sulfonate in rats with cerebral ischemic stroke: insights from proteomics**

Zheyi Wang, Yize Sun, Lihua Bian, Yiling Zhang, Yue Zhang, Chunguo Wang, Jinzhou Tian, Tao Lu

*Biomedicine & Pharmacotherapy*, Volume 151, 2022, 113059.

<https://www.sciencedirect.com/science/article/pii/S0753332222004486>

**A data-independent acquisition (DIA)-based quantification workflow for proteome analysis of 5000 cells**

Na Jiang, Yan Gao, Jia Xu, Fengting Luo, Xiangyang Zhang, Ruibing Chen

*Journal of Pharmaceutical and Biomedical Analysis*, Volume 216, 2022, 114795.

<https://www.sciencedirect.com/science/article/pii/S0731708522002163>

**Phosphoproteomics reveals that camel and goat milk improve glucose homeostasis in HDF/STZ-induced diabetic rats through activation of hepatic AMPK and GSK3-GYS axis**

Binsong Han, Lina Zhang, Yanmei Hou, Jinjing Zhong, Kasper Hettinga, Peng Zhou

*Food Research International*, Volume 157, 2022, 111254.

<https://www.sciencedirect.com/science/article/pii/S0963996922003118>

**Comprehensive proteomic profiling of plasma and serum phosphatidylserine-positive extracellular vesicles reveals tissue-specific proteins**

Satoshi Muraoka, Masayo Hirano, Junko Isoyama, Satoshi Nagayama, Takeshi Tomonaga, Jun Adachi

*iScience*, Volume 25, Issue 4, 2022, 104012.

<https://www.sciencedirect.com/science/article/pii/S2589004222002826>

**MSSort-DIAXMBD: A deep learning classification tool of the peptide precursors quantified by OpenSWATH**

Yiming Li, Qingzu He, Huan Guo, Chuan-Qi Zhong, Xiang Li, Yulin Li, Jiahuai Han, Jianwei Shuai

*Journal of Proteomics*, Volume 259, 2022, 104542.

<https://www.sciencedirect.com/science/article/pii/S1874391922000653>

**96DRA-Urine: A high throughput sample preparation method for urinary proteome analysis**

Xiaoyue Tang, Xiaoping Xiao, Haidan Sun, Shuxin Zheng, Xiaolian Xiao, Zhengguang Guo, Xiaoyan Liu, Wei Sun

*Journal of Proteomics*, Volume 257, 2022, 104529.

<https://www.sciencedirect.com/science/article/pii/S1874391922000525>

**Whole-genome sequencing of *Cryptococcus podzolicus* Y3 and data-independent acquisition-based proteomic analysis during OTA degradation**

Meilin Wei, Solairaj Dhanasekaran, Esa Abiso Godana, Qiya Yang, Yuan Sui, Xiaoyun Zhang, Guillaume Legrand Ngolong Ngea, Hongyin Zhang

*Food Control*, Volume 136, 2022, 108862.

<https://www.sciencedirect.com/science/article/pii/S095671352200055X>

**Proteomic identification of proliferation and progression markers in human polycythemia vera stem and progenitor cells**

Ge Tan, Witold E. Wolski, Sandra Kummer, Mara Hofstetter, Alexandre P.A. Theocharides, Markus G. Manz, Ruedi Aebersold, Fabienne Meier-Abt

*Blood Advances*, Volume 6, Issue 11, 2022, Pages 3480–3493.

<https://www.sciencedirect.com/science/article/pii/S2473952922000325>

**Dynamic urine proteome changes in a rat model of simvastatin-induced skeletal muscle injury**

Jing Wei, Yuhang Huan, Ziqi Heng, Chenyang Zhao, Lulu Jia, Yuncui Yu, Youhe Gao

*Journal of Proteomics*, Volume 254, 2022, 104477.

<https://www.sciencedirect.com/science/article/pii/S1874391921003766>

**MAL2 mediates the formation of stable HER2 signaling complexes within lipid raft-rich membrane protrusions in breast cancer cells**

Jaekwang Jeong, Jae Hun Shin, Wenxue Li, Jun Young Hong, Jaechul Lim, Jae Yeon Hwang, Jean- Ju Chung, Qin Yan, Yansheng Liu, Jungmin Choi, John Wysolmerski

*Cell Reports*, Volume 37, Issue 13, 2021, 110160.

<https://www.sciencedirect.com/science/article/pii/S2211124721016569>

**Caffeic acid phenethyl ester protects against doxorubicin-induced cardiotoxicity and increases chemotherapeutic efficacy by regulating the unfolded protein response**

Ying Zhang, Dezhi Kong, Han Han, YongJun Cao, HongXuan Zhu, Guozhen Cui

*Food and Chemical Toxicology*, Volume 159, 2022, 112770.

<https://www.sciencedirect.com/science/article/pii/S0278691521008036>

**Quantitative subcellular acyl-CoA analysis reveals distinct nuclear metabolism and isoleucine-dependent histone propionylation**

Sophie Trefely, Katharina Huber, Joyce Liu, Michael Noji, Stephanie Stransky, Jay Singh, Mary T. Doan, Claudia D. Lovell, Eliana von Krusenstiern, Helen Jiang, Anna Bostwick, Hannah L. Pepper, Luke Izzo, Steven Zhao, Jimmy P. Xu, Kenneth C. Bedi, J. Eduardo Rame, Juliane G. Bogner-Strauss, Clementina Mesaros, Simone Sidoli, Kathryn E. Wellen, Nathaniel W. Snyder

*Molecular Cell*, Volume 82, Issue 2, 2022, Pages 447-462.e6.

<https://www.sciencedirect.com/science/article/pii/S1097276521009564>

**Formation of resting cells is accompanied with enrichment of ferritin in marine diatom *Phaeodactylum tricorutum***

Xuehua Liu, Lijun Wang, Songcui Wu, Lu Zhou, Shan Gao, Xiujun Xie, Lepu Wang, Wenhui Gu, Guangce Wang

*Algal Research*, Volume 61, 2022, 102567.

<https://www.sciencedirect.com/science/article/pii/S2211926421003866>

**Isoform-resolved correlation analysis between mRNA abundance regulation and protein level degradation**

Barbora Salovska Hongwen Zhu Tejas Gandhi Max Frank Wenxue Li George Rosenberger Chongde Wu Pierre-Luc Germain Hu Zhou Zdenek Hodny Lukas Reiter Yansheng Liu

*Molecular Systems Biology* (2020)16: e9170.

<https://www.embopress.org/doi/full/10.15252/msb.20199170>

**R2-P2 rapid-robotic phosphoproteomics enables multidimensional cell signaling studies**

Mario Leutert Ricard A Rodríguez-Mías Noelle K Fukuda Judit Villén

*Molecular Systems Biology* (2019)15: e9021.

<https://www.embopress.org/doi/full/10.15252/msb.20199021>

**Comparative proteomics analysis reveals the molecular mechanism of enhanced cold tolerance through ROS scavenging in winter rapeseed (*Brassica napus* L.)**

Wenbo Mi, Zigang Liu, Jiaojiao Jin, Xiaoyun Dong, Chunmei Xu, Ya Zou, Mingxia Xu, Guoqiang Zheng, Xiaodong Cao, Xinling Fang, Caixia Zhao, Chao Mi

*PLOS ONE* 16(1): e0243292 2021.

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0243292>

**Transcriptomic, proteomic, metabolomic, and functional genomic approaches of *Brassica napus* L. during salt stress**

Jiabin Shu, Xiao Ma, Hua Ma, Qiurong Huang, Ye Zhang, Mei Guan, Chunyun Guan

*PLOS ONE* 17(3): e0262587 2022.

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0262587>

**Cross-compartment signal propagation in the mitotic exit network**

Xiaoxue Zhou, Wenxue Li, Yansheng Liu, Angelika Amon

*eLife* 10:e63645., 2021.

<https://elifesciences.org/articles/63645>

**Proteome analysis of urinary biomarkers in a bovine IRBP-induced uveitis rat model via data-independent acquisition and parallel reaction monitoring proteomics**

Qin Weiwei, Qin Xuyan, Li Lujun, Gao Youhe

*Frontiers in Molecular Biosciences*, 9, 2022.

<https://www.frontiersin.org/article/10.3389/fmolb.2022.831632>

**Brain proteomic profiling in intractable epilepsy caused by TSC1 Truncating mutations: a small sample study**

Liu Yi-Dan, Ma Meng-Yu, Hu Xi-Bin, Yan Huan, Zhang Yan-Ke, Yang Hao-Xiang, Feng Jing-Hui, Wang Lin, Zhang Hao, Zhang Bin, Li Qiu-Bo, Zhang Jun-Chen, Kong Qing-Xia

*Frontiers in Neurology*, 11, 2020.

<https://www.frontiersin.org/article/10.3389/fneur.2020.00475>

**Cerebrospinal fluid-derived microvesicles from sleeping sickness patients alter protein expression in human astrocytes**

Dozio Vito, Lejon Veerle, Mumba Ngoyi Dieudonné, Büscher Philippe, Sanchez Jean-Charles, Tiberti Natalia

*Frontiers in Cellular and Infection Microbiology*, 9, 2019.

<https://www.frontiersin.org/article/10.3389/fcimb.2019.00391>

**Multifaceted stoichiometry control of bacterial operons revealed by deep proteome quantification**

Zhao Jing, Zhang Hong, Qin Bo, Nikolay Rainer, He Qing-Yu, Spahn Christian M.T., Zhang Gong

*Frontiers in Genetics* 10, 2019.

<https://www.frontiersin.org/article/10.3389/fgene.2019.00473>

**Impact of the glycemic level on the salivary proteome of middle-aged and elderly people with type 2 diabetes mellitus: an observational study**

Jia Shu Yuan, Zhang Yan Ling, Sun Xiang Yu, Yuan Chao, Zheng Shu Guo

*Frontiers in Molecular Biosciences* 8, 2021.

<https://www.frontiersin.org/article/10.3389/fmolb.2021.790091>

**A combined transcriptomic and proteomic approach to reveal the effect of mogroside V on OVA-induced pulmonary inflammation in mice**

Dou Tong, Wang Juan, Liu Yisa, Jia Jiangang, Zhou Luwei, Liu Guoxiang, Li Xiaojuan, Han Mengjie, Lin Jiayun, Huang Fengxiang, Chen Xu

*Frontiers in Immunology* 13, 2022.

<https://www.frontiersin.org/article/10.3389/fimmu.2022.800143>

**Protein phosphorylation changes during systemic acquired resistance in *Arabidopsis thaliana***

Zhou Qingfeng, Meng Qi, Tan Xiaomin, Ding Wei, Ma Kang, Xu Ziqin, Huang Xuan, Gao Hang

*Frontiers in Plant Science* 12, 2021.

<https://www.frontiersin.org/article/10.3389/fpls.2021.748287>

**Molecular characterization of advanced colorectal cancer using serum proteomics and metabolomics**

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### **Next-generation proteomics of serum extracellular vesicles combined with single-cell RNA sequencing identifies MACROH2A1 associated with refractory COVID-19**

Takahiro Kawasaki, Yoshito Takeda, Ryuya Eda, Yuya Shirai, Mari Nogami-Itoh, Takanori Matsuki, Hiroshi Kida, Takatoshi Enomoto, Reina Hara, Yoshimi Noda, Yuichi Adachi, Takayuki Niitsu, Saori Amiya, Yuta Yamaguchi, Teruaki Murakami, Yasuhiro Kato, Takayoshi Morita, Hanako Yoshimura, Makoto Yamamoto, Daisuke Nakatsubo, Kotaro Miyake, Takayuki Shiroyama, Haruhiko Hirata, Jun Adachi, Atsushi Kumanogoh

*Inflammation and Regeneration, Volume 42, Article number: 53 (2022).*

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### **N6-methyladenosine (m6A) reader Pho92 is recruited co-transcriptionally and couples translation to mRNA decay to promote meiotic fitness in yeast**

Radhika A. Varier, Theodora Sideri, Charlotte Capitanchik, Zornitsa Manova, Enrica Calvani, Alice Rossi, Raghu R. Edupuganti, Imke Ensinnck, Vincent W. C. Chan, Harshil Patel, Joanna Kirkpatrick, Peter Faull, Ambrosius P. Snijders, Michiel Vermeulen, Markus Ralser, Jernej Ule, Nicholas M Luscombe, Folkert J. van Werven

*eLife 11: e84034, 2022.*

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### **Proteomic landscape of human spermatozoa: optimized extraction method and application**

Luo, Mengqi, Tao Su, Shisheng Wang, Jianhai Chen, Tianhai Lin, Qingyuan Cheng, Younan Chen, Meng Gong, Hao Yang, Fuping Li, Yong Zhang

*Cells 11, No. 24: 4064, 2022.*

<https://www.mdpi.com/2073-4409/11/24/4064>

### **Oxidative stress and extracellular matrix remodeling are signature pathways of extracellular vesicles released upon morphine exposure on human brain microvascular endothelial cells**

Vujić, Tatjana, Domitille Schvartz, Izadora Lirano Furlani, Isabel Meister, Víctor González-Ruiz, Serge Rudaz, Jean-Charles Sanchez

*Cells 11, no. 23: 3926, 2022.*

<https://www.mdpi.com/2073-4409/11/23/3926>

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